Homework 2

Question 1.

1. Hadoop fs –ls Shakespeare

Found 4 items

-rw-rw-rw- 1 training supergroup 1784616 2016-09-12 11:08 shakespeare/comedies 1479035 2016-09-12 11:08 shakespeare/histories 1479035 2016-09-12 11:08 shakespeare/histories 268140 2016-09-12 11:08 shakespeare/poems 1752440 2016-09-12 11:08 shakespeare/tragedies

2. Hadoop fs -cat Shakespeare/poems | head -n 16

SONNETS

TO THE ONLY BEGETTER OF
THESE INSUING SONNETS
MR. W. H. ALL HAPPINESS
AND THAT ETERNITY
PROMISED BY
OUR EVER-LIVING POET WISHETH
THE WELL-WISHING
ADVENTURER IN
SETTING FORTH
cat: Unable to write to output stream.

3. With nodes N1 and N2 on RA

N3 and N4 on RB

N5 and N6 on RC

/filelocation B1 B2 B3 B4 B5

B1: N1, N3

B2: N2, N5

B3: N4, N6

B4: N1, N3

B5: N2, N5

Question 2.

Problem 2:			
Map Input map (15) map (21) map (24) map (30) map (49)	[(3,15)(5,15)] [(3,21)(7,21)] [(2,24),(3,24)] [(2,30),(3,30),(5,30)] [(7,44)]	Reducer Input (2,[24,30]) (3, [15,21,24,30]) (5, [15,30]) (7, [21,49])	Reducer cutput (2,54) (3,90) (5,45) (7,70)

Question 3.

1. ADRIANO: 111

a. Whether: 41b. Love: 2221c. Loves: 203d. The: 25578e. Whether: 79f. We: 2922g. Zodiac: 1

- 2. Hadoop fs -cat wordcounts/part-r-00000 | wc -l
 - a. 29183
- 3. Sort results based on usage
 - a. Categorize results based on sentiment analysis word categorizations
- 4. The record reader takes the file input and converts into a key value pair. The key is usually the byte offset or some randomly generated key that typically is not used. The value is in this case a single word from the input (Shakespeare poems).
 - a. Input ex: (TO THE ONLY BEGETTER OF)
 - b. Output ex: (0, TO), (3, THE), (7, ONLY)...

Question 4:

- 1. Mapper output
 - a) [(N, 2.0)] [(n,3.0) (i,2.0) (d,10.0) (n,3.0) (t,3.0) (b,4.0)

(t,4.0)

Reducer input [N,(2.0)] [n,(3.0,3.0)] [b,(4.0)] [d,(10.0)] [i,(2.0)] [t,(3.0,4.0)]

- 2. Code please refer to the repo
- 3. A---3.89139 W----- 4.46401 a-----3.077655 t----3.73326 z----4.672727